

Implementation Barriers for Onsite Non-Potable Water Systems Implementation

April 15,2020

Presenter Biography Information

Paula Kehoe: Director of Water Resources- San Francisco Public Utilities Commission

Brian Pecson- Principal Engineer- Trussell Technologies

Brie Post- Senior Engineer- Trussell Technologies

Covid-19 Latest Research Update

April 16, 2020

Presenter Biography Information

Charles Haas, Drexel University, WRF Academic Council

Charles N. Haas is the L.D. Betz Professor of Environmental Engineering and head of the Department of Civil, Architectural and Environmental Engineering, at Drexel University, where he has been since 1991. He also has courtesy appointments in the Department of Emergency Medicine of the Drexel University College of Medicine and in the School of Public Health. He received his BS (Biology) and MS (Environmental Engineering) from the Illinois Institute of Technology and his PhD in Environmental Engineering from the University of Illinois at Urbana-Champaign. He has served on the faculties of Rensselaer Polytechnic Institute and the Illinois Institute of Technology prior to joining Drexel. He co-directed the USEPA/DHS University Cooperative Center of Excellence – Center for Advancing Microbial Risk Assessment (CAMRA). He is a fellow of the International Water Association, American Academy for the Advancement of Science, the Society for Risk Analysis, the American Society of Civil Engineers the American Academy of Microbiology and the Association of Environmental Engineering and Science Professors. He is a board-certified Environmental Engineering Member by eminence of the American Academy of Environmental Engineers. He has received the Dr. John Leal Award and the AP Black Award of the American Water Works Association and the Clarke Water Prize. Over his career, Professor Haas has specialized in the assessment of risk from and control of human exposure to pathogenic microorganisms, and in particular the treatment of water and wastewater to minimize microbial risk to human health. Professor Haas has served on numerous panels of the National Academies of Sciences, Engineering and Medicine. He is a past member of the Water Science and Technology Board of the National Academies, and the US EPA Board of Scientific Counselors.

Mark W. LeChevallier, PhD- Dr. Water Consulting, LLC

Dr. Mark LeChevallier is the principal and manager of Dr. Water Consulting LLC, a part-time consulting business, after retiring from American Water at the end of 2017. Dr. LeChevallier received his Bachelor of Science and Master's degrees in Microbiology from Oregon State University, and his Ph.D. in Microbiology from Montana State University. Dr. LeChevallier has authored over 300 research papers and has received awards from the American Water Works Association for outstanding contributions to the science of water treatment. He was the recipient of the George Warren Fuller award in 1997 from the New Jersey section of the American Water Works Association, the Abel Wolman Award in 2012 and the A.P. Black award for research in 2015, both from the American Water Works Association. He currently serves on the Drinking Water subcommittee of the USEPA Science Advisory Board, the Water Science & Technology Board for the National Academy of Science and was a member of the NAS *Legionella* workgroup. He is a fellow of the American Academy of Microbiology.

Peter Grevatt, PhD**The Water Research Foundation**

Peter Grevatt, PhD is CEO of The Water Research Foundation, a 501(c)(3) not-for-profit organization. Dr. Grevatt has over 30 years of experience leading the implementation of public health and environmental protection programs including significant national leadership experience in the water sector. Most recently, he served as Director of EPA's Office of Ground Water and Drinking Water (OGWDW) where he was responsible for ensuring the safety of the nation's drinking water supply through the development and implementation of national drinking water standards, oversight and funding of state drinking water programs, and the implementation of source water protection and underground injection control programs. Prior to joining OGWDW in 2012, Dr. Grevatt served as Director of the Office of Children's Health Protection and as Senior Advisor to EPA's Administrator for Children's Environmental Health. In addition, Dr. Grevatt has held leadership roles in EPA's national hazardous waste and water quality programs. He received his MS and PhD degrees in Basic Medical Sciences from New York University Medical Center and earned his bachelor's degree in Biology from Earlham College in Richmond, Indiana.

Gertjan Medema, PhD**KWR Water Research Institute in Nieuwegein, the Netherlands**

Gertjan Medema studied Biology with a major in Microbiology and Biotechnology at Leiden University (Netherlands) and graduated in 1985. He was project scientist at the Department of Technical Microbiology, University of Delft (Netherlands) to design, perform and report research of the microbial ecology of wastewater bacteria. He was project scientist and later project leader of Water Microbiology at the Laboratory for Water and Food Microbiology, National Institute of Public Health and the Environment (Netherlands), where his research focused on the occurrence and risk of pathogenic bacteria, protozoa and viruses through drinking water and recreational water. He has been co-responsible for epidemiological studies on the health effects of bathing in fresh water. For more than 20 years, he is principal microbiologist at KWR Water Research Institute, where his research focuses on the provision of a scientific basis for microbial risk management of water systems. He is director of the WHO Collaborating Centre on Water Quality and Health at KWR. He is part-time chair on Water & Health at Delft University of Technology (Sanitary Engineering) since 2009 and Visiting Hannah Professor on Water & Health at Michigan State University since 2018. He is advisor of WHO on microbiological (drinking) water guidelines and QMRA since 1991 on SARS and WASH in 2003, and via WHO of the European Commission on the EU Drinking Water Directive and water reuse guidelines.

Matthew J Arduino, MS, DrPH, FSHEA, M(ASCP)**Environmental Hygiene and Infection Prevention - CDC IMS 2019-nCoV Healthcare Infection Control Team****Centers for Disease Control and Prevention**

Dr. Matthew J Arduino is the Sr Advisor for Environmental Hygiene and Infection Prevention, Office of the Director, in the Division of Healthcare Quality Promotion, National Center for Environmental and Zoonotic infectious Diseases. He received his doctorate from Gillins School of Public Health, University of North Carolina, MS in microbiology from New York Medical College, and BS in Biology from the College of Mount Saint Vincent. He worked at the Centers for Disease Control and Prevention for 32 years. He has served on editorial boards of several Journals including Applied and Environmental Microbiology, American Journal of Infection

Control, Infection Control and Hospital Epidemiology, Nephrology News and Issues, Contemporary, Dialysis, and Nephrology, Seminars in Dialysis, International Journal of Infectious Diseases and The International Journal of Tuberculosis and Lung Diseases; He serves as an adhoc reviewer Water SA, Water Science and Technology, Journal of Applied Microbiology, Journal of Clinical Microbiology, Clinical Kidney International, Journal of the American Society for Nephrology; He is a fellow in the Society for Healthcare Epidemiology of America. He has served on a number of Inter-Agency Working Groups, FDA Advisory Panels, and several standards committees including NSF International P387, and NSF-444, ASHRAE SPC 514, Clinical Laboratories Standards Institute QMS27, US Technical Committee ISO 150/SC2 and the Association for the Advancement of Medical Instrumentation Renal Disease Committee. He has been the number of Awards from CDC and FDA including 4 HHS Secretary Distinguished Service Awards. He specializes in bio-risk assessments, and providing lab support to investigate outbreaks in the healthcare setting. He has authored and co-authored 150 papers and 13 book chapters on hemodialysis, outbreak investigations, environmental sampling, and disinfection. His expertise is in Public Health Microbiology, Environmental Hygiene, Infection Prevention and represents the Agency on issues related to infection control, healthcare water quality, hemodialysis-associated diseases, disinfection and sterilization, and environmental sampling.

Krista Wigginton, PhD-Associate Professor, Department of Civil and Environmental Engineering - University of Michigan

Krista Rule Wigginton received a B.S. degree in Chemistry at the University of Idaho, M.S. and Ph.D. degrees in Environmental Engineering at Virginia Tech, and was a postdoc at École Polytechnique Fédérale de Lausanne in Lausanne, Switzerland. In 2013, she joined the Department of Civil and Environmental Engineering at the University of Michigan, where she is currently an associate professor. Her research team focuses on viruses in the environment, including their mechanistic fate, the role they play in urban water microbial ecology, and developing novel detection methods. She is the recipient of an NSF CAREER Award, the Water Research Foundation Paul L. Busch Award, and is currently the 2019/2020 Shimizu Visiting Professor at Stanford University.

Charles Gerba, PhD- Professor of Epidemiology and Bio-statistics- Dept of Environmental Science University of Arizona

Charles P. Gerba is a professor of epidemiology and bio-statistics in the Dept of Environmental Science. He has authored over 500 journal articles, books and has been featured on numerous television programs and magazines. Dr. Gerba has an international reputation for his methodologies for pathogen detection in water and food, pathogen occurrence in households, and risk assessment.

Lola Olabode, MPH, BCES -The Water Research Foundation

Lola is the research program director for Receiving Water Linkages in Water Quality and Compounds of Emerging Concern (aka CECs; Compounds of Current and Future Interest) in the Sources and Receiving Waters Unit group. She has been with the Foundation since 2000. She also manages the WRF's Unsolicited research program. Prior to joining the foundation, she worked as an epidemiologist investigating food and waterborne outbreaks for the State of Maryland. She was given a communication and leadership award by the Water Environment Federation (WEF) for Wastewater Worker Safety and High Consequence Pathogen Management as a result of the 2014 Ebola Outbreak. Lola has a Bachelor's degree in chemistry from Tougaloo College and a Master's of public health degree in environmental and occupational health from

the George Washington University. Her goal is to bridge the gap between one water engineering and public health.

**Impact of Prolonged Shutdown on Buildings from a Water Quality Perspective
May 28,2020**

Presenter Biography Information

Jennifer L. Clancy, PhD., M.S. LawESPRI

Jasen Kunz, MPH, REHS CDC

Andrew Whelton, PhD- Purdue University

Michele Prevost, PhD- Polytechnique Montréal